

Docket No.: 03-247 (US01)

AMENDMENTS OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A vaso-occlusive device for treating a site within a patient's vasculature, the device comprising a first material which may be heated by application of a source of energy external to a patient's body after the device is implanted at a treatment site in the patient's body, and a bioactive agent that is released or activated upon heating of said first material by application of said source of energy.
2. (Original) The vaso-occlusive device of claim 1, further comprising a second material having a melting or glass transition temperature greater than body temperature, but less than a temperature reached by the device when heated directly or indirectly by the external energy source.
3. (Original) The vaso-occlusive device of claim 2, wherein the second material is embedded in one or more portions of the device, such that, when heated directly or indirectly by the external energy source and allowed to cool in the body, the one or more portions are at least partially fused together to stabilize the vaso-occlusive device in a deployed configuration.
4. (Withdrawn) The vaso-occlusive device of claim 2, the second material comprising a coating provided on at least a portion of the device.
5. (Withdrawn) The vaso-occlusive device of claim 4, further comprising a bioactive agent that is released at the treatment site when the coating is heated.

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6. (Currently Amended) The vaso-occlusive device of claim [1] 2, ~~further comprising a bioactive agent that is activated when the device is heated~~ wherein said bioactive agent is released or activated by melting said second material.
7. (Original) The vaso-occlusive device of claim 1, the first material comprising a ferrous material, and the external energy source comprising magnetic resonance.
8. (Original) The vaso-occlusive device of claim 1, wherein the first material is embedded in the device.
9. (Withdrawn) The vaso-occlusive device of claim 1, wherein the first material is in a coating provided on at least a portion of the device.
10. (Original) The vaso-occlusive device of claim 1, the device comprising
a coil forming a lumen, and
a heating member disposed in the lumen, the heating member at least partially comprising the first material.
11. (Original) The vaso-occlusive device of claim 10, the heating member comprising a filament attached to first and second locations of the coil.

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12. (Original) The vaso-occlusive device of claim 10, further comprising a second material having a melting or glass transition temperature greater than body temperature, but less than a temperature reached by the heating member when heated directly or indirectly by the external energy source.
13. (Original) The vaso-occlusive device of claim 12, wherein the second material is embedded in one or more portions of the coil, such that, when heated by the heating member and allowed to cool in the body, the one or more portions are at least partially fused together to stabilize the coil in a deployed configuration.
14. (Withdrawn) The vaso-occlusive device of claim 12, the second material comprising a coating provided on at least a portion of the coil.
15. (Withdrawn) The vaso-occlusive device of claim 14, further comprising a bioactive agent that is released at the treatment site when the coating is heated.
16. (Withdrawn) The vaso-occlusive device of claim 12, the heating member comprising a filament attached to the coil, the second material comprising a coating provided on at least a portion of the filament.
17. (Withdrawn) The vaso-occlusive device of claim 16, further comprising a bioactive agent that is released at the treatment site when the coating is heated.

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18. (Currently Amended) A vaso-occlusive device comprising
a helically wound coil comprising a highly conductive material and forming a lumen, and
a filament at least partially positioned in the lumen, the filament comprising a highly resistive
material, such that, when the device is implanted in a body and exposed to a pulsed magnetic field
applied from outside the body, the highly resistive material is heated; and
a bioactive agent that is released or activated upon heating of said first material by
application of said source of energy.
19. (Original) The vaso-occlusive device of claim 18, the highly conductive material comprising
platinum, the highly resistive material comprises ferrous material.
20. (Currently Amended) A vaso-occlusive device for treating a site within a patient's
vasculature, comprising:
a first, ferrous material that, when the device is implanted at a treatment site in the patient's
body, can be heated by application of a pulsed magnetic field applied by a magnetic resonance
("MR") device located external to the patient; and
a second material having a melting or glass transition temperature greater than body
temperature, but less than a temperature reached by the ferrous material when heated by the MR
device; and
a bioactive agent that is released or activated at the treatment site upon heating of said first
material by application of said source of energy.

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21. (Original) The vaso-occlusive device of claim 20, wherein the second material is embedded in one or more portions of the device, such that, when the device is heated due to the ferrous material being heated by the MR device, and allowed to cool in the body, the one or more portions are at least partially fused together to stabilize the vaso-occlusive device in a deployed configuration.

22. (Withdrawn) The vaso-occlusive device of claim 20, the second material comprising a coating provided on at least a portion of the device.

23. (Withdrawn-currently amended) The vaso-occlusive device of claim 22, ~~further comprising a bioactive agent that is released at the treatment site when the coating is heated wherein said~~ bioactive agent is released or activated by directly or indirectly heating said coating.

24. (Currently Amended) The vaso-occlusive device of claim 20, ~~further comprising a bioactive agent that is activated when the device is heated wherein said bioactive agent is released or activated~~ by melting said second material.

25. (Original) The vaso-occlusive device of claim 20, wherein the ferrous material is embedded in the device.

26. (Withdrawn) The vaso-occlusive device of claim 20, wherein the ferrous material is in a coating provided on at least a portion of the device.

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27. (New) A method of deploying a vaso-occlusive device at a site within the vasculature of a patient, comprising:

placing a vaso-occlusive device at said site, said vaso-occlusive device comprising a first material which may be heated by application of a source of energy external to the patient's body after the device is placed at the site;

heating said first material by application of a source of energy external to the patient's body.

28. (New) The method of claim 27 wherein said vaso-occlusive device further comprises a bioactive agent that is released or activated upon heating of said first material by application of said source of energy.

29. (New) The method of claim 27 wherein said first material is embedded in said device.

30. (New) The method of claim 27 wherein said device is substantially formed of said first material.

31. (New) The method of claim 27 wherein said device comprises a helical coil formed of said first material.

32. (New) The method of claim 27 wherein said device comprises a helical coil and said first material is embedded in said helical coil.

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33. (New) The method of claim 27 wherein said device further comprises a second material having a melting or glass transition temperature greater than body temperature, but less than a temperature reached by the device when heated directly or indirectly by the external energy source.
34. (New) The method of claim 33 further comprising the step of:
heating said second material to said melting or glass temperature; and
cooling said second material thereby at least partially fusing together the vaso-occlusive device.
35. (New) The method of claim 33 wherein said device further comprises a bioactive agent that is released or activated by said step of heating said first material by application of said source of energy.
36. (New) The method of claim 33 wherein said device further comprises a bioactive agent that is released or activated by step of heating said first material by application of said source of energy and said method further comprises the step of:
releasing or activating said bioactive agent by melting said second material.